

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

04-183  
(400/147)

Serial No.

10/798,090

**SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)



Applicant:

McSwiggen et al.

Filing Date:

March 11, 2004

Group:

4636 1635

**U.S. PATENT APPLICATION DOCUMENTS**

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
AttB	*	US 2003/0190635	10/2003	McSwiggen et al.			
AttB	*	US 2003/0206887	11/2003	Morrissey et al.			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
AttB	1.	1325955	07/09/03	EP (Kippel-Giese et al.)				
	2.	08208687	08/1996	JP (Hotoda et al.)				
	3.	95/04142	02/09/95	WO (Robinson)				
	4.	01/097850	12/27/01	WO (Siemeister et al.)				
	5.	02/07747	01/31/02	WO (King)				
	6.	02/10378	02/07/02	WO (Cowser et al.)				
	7.	02/096927	12/05/02	WO (Escobedo et al.)				
	8.	03/068797	08/21/03	WO (Rossi et al.)				
	9.	03/070910	08/28/03	WO (McSwiggen et al.)				

EXAMINER

*AttB*

DATE CONSIDERED

7/20/05

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		McSwiggen et al.	
		Filing Date:	Group:
		March 11, 2004	1636 1635

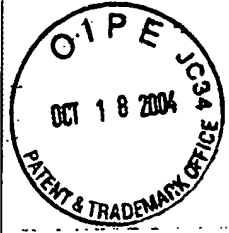
AMB	10.	03/080638	10/02/03	WO (Lacasse et al.)				
↓	11.	04/043977	05/27/04	WO (Prakush et al.)				
↓	12.	04/072261	08/26/04	WO (Li et al.)				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

AMB	13.	Anderson et al., "Bispecific Short Hairpin siRNA Constructs Targeted to CD4, CXCR4, and CCR5 Confer HIV-1 Resistance," <i>Oligonucleotides</i> , 13:303-312 (2003)						
↓	14.	Bayard et al., "Increased stability and antiviral activity of 2'-O-phosphoglyceryl derivatives of (2'-5')oligo(adenylate)," <i>Eur. J. Biochem.</i> , 142(29):291-298 (1984)						
↓	15.	International Search Report for PCT/US2004/016390 mailed March 31, 2005						

EXAMINER	AMB	DATE CONSIDERED	7/26/05
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		<b>Filing Date:</b> March 11, 2004	<b>Group:</b> 1635

## U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
AHB	*	09/301,511	04/28/99	Beigleman et al.			
	*	09/740,332	12/18/00	Blatt et al.			
	*	09/800,594	03/06/01	Usman and McSwiggen			
	*	10/151,116	05/17/02	Matulic-Adamic et al.			
	*	10/201,394	08/13/01	Vargeese et al.			
	*	10/417,012	04/16/03	McSwiggen et al.			
	*	10/422,704	04/24/03	McSwiggen et al.			
	*	10/427,160	04/30/03	Vargeese et al.			
	*	10/444,853	05/23/03	McSwiggen et al.			
	*	10/652,791	08/29/03	McSwiggen et al.			
	*	10/693,059	10/23/03	McSwiggen et al.			
	*	10/720,448	11/24/03	McSwiggen et al.			
	*	10/727,780	12/03/03	Vaish et al.			
	*	10/757,803	01/14/04	Pavco et al.			
	*	10/780,447	02/13/04	Vargeese et al.			

EXAMINER <u>AH Brown</u>	DATE CONSIDERED <u>7/26/05</u>
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AMB	*	10/826,966	04/16/04	McSwiggen et al.			
	*	60/082,404	04/20/98	Thompson et al.			
	*	60/292,217	05/18/01	Adamic et al.			
	*	60/306,883	07/20/01	Vargeese et al.			
	*	60/311,865	08/13/01	Vargeese et al.			
	*	60/358,580	02/20/02	Beigelman et al.			
	*	60/362,016	03/06/02	Matulic-Adamic et al.			
	*	60/363,124	03/11/02	Beigelman et al.			
	*	60/386,782	06/06/02	Beigelman et al.			
	*	60/402,996	08/13/02	Usman et al.			
	*	60/406,784	08/29/02	Beigelman et al.			
	*	60/408,378	09/05/02	Beigelman et al.			
	*	60/409,293	09/09/02	Beigelman et al.			
	*	60/440,129	01/15/03	Beigelman et al.			
	*	60/543,480	02/10/04	Jadhavi et al.			
	*	US 2001/0007666	01/05/99	Hoffman et al.			07/12/01
	*	US 2002/0130430	12/29/00	Caster			09/19/02
	*	US 2003/0077829	04/24/03	MacLachlan			
	*	US 2004/0037780	05/23/03	Klinghoffer et al.			04/22/04

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**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AtB	*	4,501,729	02/26/1985	Boucher et al.			
	*	4,987,071	01/22/91	Cech et al.			
	*	5,108,921	04/28/92	Low et al.			
	*	5,138,045	08/11/92	Cook et al.			
	*	5,214,136	05/25/93	Lin et al.			
	*	5,334,711	08/02/94	Sproat			
	*	5,416,016	05/16/95	Low et al.			
	*	5,589,332	12/31/96	Shih et al.			
	*	5,624,803	04/29/1997	Noonberg et al.			
	*	5,627,053	05/06/97	Usman et al.			
	*	5,631,359	05/20/97	Chowrira et al.			
	*	5,631,360	05/20/97	Usman et al.			
	*	5,633,133	05/27/97	Long et al.			
	*	5,670,633	09/23/97	Cook et al.			
	*	5,672,695	09/30/97	Eckstein et al.			
↓	*	5,716,824	02/10/98	Beigelman et al.			

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AMS	*	5,741,679	04/21/98	George et al.			
	*	5,792,847	08/11/98	Buhr et al.			
	*	5,804,683	09/08/98	Usman et al.			
	*	5,814,620	09/29/98	Robinson et al.			
	*	5,831,071	11/03/98	Usman et al.			
	*	5,834,186	11/10/98	George et al.			
	*	5,849,902	12/15/98	Arrow et al.			
	*	5,854,038	12/29/98	Sullenger et al.			
	*	5,871,914	02/16/99	Nathan et al.			
	*	5,889,136	03/30/99	Scaringe et al.			
	*	5,898,031	04/27/99	Crooke			
	*	5,902,880	05/11/99	Thompson et al.			
	*	5,968,909	10/19/99	Agrawal et al.			
	*	5,989,912	11/23/99	Arrow et al.			
	*	5,998,203	12/07/99	Adamic et al.			
	*	6,001,311	12/14/99	Brennan			
	*	6,005,087	12/21/99	Cook et al.			
	*	6,008,400	12/28/99	Scaringe et al.			
✓	*	6,054,576	04/25/00	Bellon et al.			

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NTB	*	6,107,094	08/22/00	Crooke			
	*	6,111,086	08/29/00	Scaringe et al.			
	*	6,117,657	09/12/00	Usman et al.			
	*	6,146,886	11/14/2000	Thompson et al.			
	*	6,153,737	11/28/00	Manoharan et al.			
	*	6,162,909	12/19/00	Bellon et al.			
	*	6,168,778	01/02/01	Janjic et al.			
	*	6,180,613	01/30/01	Kaplitt et al.			
	*	6,235,310	05/22/01	Wang et al.			
	*	6,235,886	05/22/01	Manoharan et al.			
	*	6,248,878	06/19/01	Adamic et al.			
	*	6,300,074	10/09/01	Gold			
	*	6,303,773	10/16/01	Bellon et al.			
	*	6,335,434	01/01/02	Guzaev et al.			
	*	6,353,098	03/05/02	Usman et al.			
	*	6,362,323	03/26/02	Usman et al.			
	*	6,395,492	05/28/02	Manoharan et al.			
	*	6,395,713	05/28/02	Beigelman et al.			
	*	6,437,117	08/20/02	Usman et al.			

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AMB	*	6,447,796	09/10/02	Vook et al.			
	*	6,469,158	10/22/02	Usman et al.			
	*	6,476,205	11/05/02	Buhr et al.			
	*	6,506,559	06/14/03	Fire et al.			
	*	6,528,631	03/04/03	Cook et al.			
	*	6,565,885	05/20/2003	Tarara et al.			
	*	6,582,728	06/24/2003	Platz et al.			
	*	6,586,524	07/01/03	Sagara			
	*	6,592,904	07/15/2003	Platz et al.			
	*	6,617,156	09/09/03	Doucette-Stamm et al.			

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
AMB	*	2001240375 (Old Application No. 40375/01)	03/16/01	AU (Graham et al.)				
AMB	*	2,359,180	08/03/00	CA (Kreutzer et al.)				

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	*	1144623 B1	01/29/02	EP (Kreutzer et al.)				
	*	0 360 257	02/28/90	EP (Hampel et al.)				
	*	88/09810	12/15/88	WO (Tullis et al.)				
	*	89/02439	03/23/89	WO (Arnold et al.)				
	*	90/12096	10/18/90	WO (Low et al.)				
	*	90/14090	11/29/90	WO (Gillespie et al.)				
	*	91/03162	03/21/91	WO (Rossi et al.)				
	*	92/07065	04/30/92	WO (Eckstein et al.)				
	*	93/15187	08/05/93	WO (Usman et al.)				
	*	93/23569	11/25/93	WO (Draper et al.)				
	*	94/01550	01/20/94	WO (Agrawal et al.)				
	*	94/02595	02/03/94	WO (Sullivan et al.)				
	*	95/06731	03/09/95	WO (Usman et al.)				
	*	95/11304	04/27/95	WO (Usman et al.)				
	*	95/11910	05/04/95	WO (Dudycz et al.)				
	*	96/10390	04/11/96	WO (Ansell et al.)				
	*	96/10391	04/11/96	WO (Choi et al.)				
	*	96/10392	04/11/96	WO (Holland et al.)				
	1	96/18736	06/20/96	WO (Beigelman et al.)				

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✓	*	96/22689	08/01/96	WO (Pyle et al.)				
	*	97/26270	07/24/97	WO (Beigelman et al.)				
	*	98/13526	04/02/98	WO (Woolf et al.)				
	*	98/27104	06/25/98	WO (Breaker et al.)				
	*	98/28317	07/02/98	WO (Matulic-Adamic et al.)				
	*	98/43993	10/08/98	WO (Breaker et al.)				
	*	98/58058	12/23/98	WO (Ludwig & Sproat)				
	*	99/04819	02/04/99	WO (Klimuk)				
	*	99/05094	02/04/99	WO (Beigelman et al.)				
	*	99/07409	02/18/99	WO (Deschamps de Paillette et al.)				
	*	99/14226	03/25/99	WO (Wengel et al.)				
	*	99/16871	04/08/99	WO (Eckstein et al.)				
	*	99/17120	04/08/99	WO (Davis and Bishop)				
	*	99/29842	06/17/99	WO (Sullenger et al.)				
	*	99/31262	06/24/99	WO (Barry et al.)				
	*	99/32619	07/01/99	WO (Fire et al.)				
	*	99/49029	09/30/99	WO (Graham et al.)				
	*	99/53050	10/21/99	WO (Waterhouse et al.)				
✓	*	99/54459	10/28/99	WO (Thompson et al.)				

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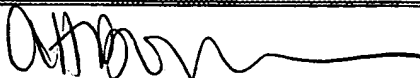

AMB	*	99/55857	11/04/99	WO (Beigelman et al.)				
	*	99/61631	12/02/99	WO (Heifetz et al.)				
	*	99/66063	12/23/99	WO (Manoharan et al.)				
	*	00/01846	01/13/00	WO (Plaetinck et al.)				
	*	00/17369	03/30/00	WO (Gurney et al.)				
	*	00/24931	05/04/00	WO (Nathan and Ellington)				
	*	00/26226	05/11/00	WO (Breaker et al.)				
	*	00/44895	08/03/00	WO (Kreutzer et al.)				
	*	00/44914	08/03/00	WO (Li et al.)				
	*	00/49035	08/24/00	WO (Sheen)				
	*	00/53722	09/14/00	WO (O'Hare and Normand)				
	*	00/63364	10/26/00	WO (Pachuk et al.)				
	*	00/66604	11/09/00	WO (Wengel et al.)				
	*	01/04313	01/18/01	WO (Satishchandran et al.)				
	*	01/29058	04/26/01	WO (Mello et al.)				
	*	01/36646	05/25/01	WO (Zernicka-Goetz et al.)				
	*	01/38551	05/31/01	WO (Grossniklaus)				
	*	01/42443	06/14/01	WO (Churikov et al.)				
✓	*	01/49844	07/12/01	WO (Driscoll et al.)				

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<div style="font-size: 2em; margin-bottom: 10px;">A</div> <div style="font-size: 4em; margin-bottom: 10px;">1</div> <div style="font-size: 4em;">2</div>	*	01/53475	07/26/01	WO (Cogoni et al.)				
	*	01/68836	09/20/01	WO (Beach et al.)				
	*	01/70944	09/27/01	WO (Honer et al.)				
	*	01/70949	09/27/01	WO (Graham et al.)				
	*	01/72774	10/04/01	WO (Deak et al.)				
	*	01/75164	10/11/01	WO (Tuschl et al.)				
	*	01/92513	12/06/01	WO (Arndt et al.)				
	*	01/96584	12/20/01	WO (Mushegian et al.)				
	2	01/029176	04/26/01	WO (Choi et al.)				
	*	02/22636	03/21/02	WO (Bennett et al.)				
	*	02/38805	05/16/02	WO (Echeverri et al.)				
	*	02/44321	06/06/02	WO (Tuschl et al.)				
	*	02/55692	07/18/02	WO (Kreutzer et al.)				
	*	02/55693	07/18/02	WO (Kreutzer et al.)				
	*	02/094185 (PCT/US02/15876)	11/28/02	WO (Beigelman et al.)				
	*	03/024420	03/27/03	WO (Ahlheim et al.)				
	*	03/046185	06/05/03	WO (Wang et al.)				
	*	03/047518	06/12/03	WO (Wang et al.)				
	*	03/064625	08/07/03	WO (Woolf et al.)				

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AB	*	03/064626	08/07/03	WO (Woolf et al.)				
	*	03/070918 (PCT/US03/05346)	08/28/03	WO (McSwiggen et al.)				
	*	03/074654 (PCT/US03/05028)	09/12/03	WO (McSwiggen et al.)				
	*	04/013280	02/12/04	WO (Davidson et al.)				
	3	PCT/US04/13456	04/30/04	WO (Vargeese et al.)				
✓	4	PCT/US04/16390	05/24/04	WO (Vaish et al.)				



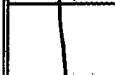
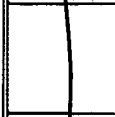
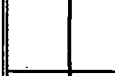
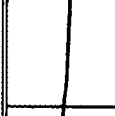





**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

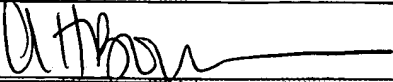
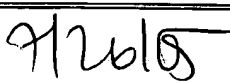
AB	*	Abramovitz et al., "Catalytic Role of 2'-Hydroxyl Groups Within a Group II Intron Active Site," <i>Science</i> 271:1410-1413 (1996)
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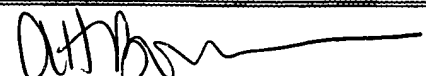

	<input checked="" type="checkbox"/>	Antopolsky et al., "Peptide-Oligonucleotide Phosphorothioate Conjugates with Membrane Translocation and Nuclear Localization Properties," <u>Bioconjugate Chem.</u> 10:598-606 (1999)
	<input checked="" type="checkbox"/>	Arap et al., "Cancer Treatment by Targeted Drug Delivery to Tumor Vasculature in a Mouse Model," <u>Science</u> 279:377-380 (1998)
	<input checked="" type="checkbox"/>	Baenziger and Fiete, "Galactose and N-Acetylgalactosamine-Specific Endocytosis of Glycopeptides by Isolated Rat Hepatocytes," <u>Cell</u> 22:611-620 (1980)
	<input checked="" type="checkbox"/>	Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <u>Molecular and Cellular Biology</u> , 274-283 (1999)
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	<input checked="" type="checkbox"/>	Bannai et al., "Effect of Injection of Antisense of Oligodeoxynucleotides of GAD Isozymes into Rat Ventromedial Hypothalamus on Food Intake and Locomotor Activity," <u>Brain Research</u> 784:305-315 (1998)
	<input checked="" type="checkbox"/>	Bannai et al., "Water-absorbent Polymer as a Carrier for a Discrete Deposit of Antisense Oligodeoxynucleotides in the Central Nervous System," <u>Brain Research Protocols</u> 3:83-87 (1998)
	<input checked="" type="checkbox"/>	Bartel and Szostak, "Isolation of New Ribozymes from a Large Pool of Random Sequences," <u>Science</u> 261:1411-1418 (1993)
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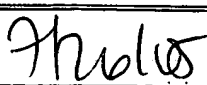
Attb	*	Beaucage and Iyer, "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives," <i>Tetrahedron</i> 49:1925-1963 (1993)
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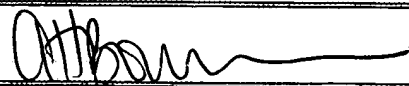
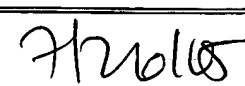
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AMB	*	Chowrira et al., "Novel guanosine requirement for catalysis by the hairpin ribozyme," <i>Nature</i> 354:320-322 (1991)
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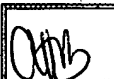
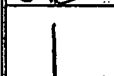
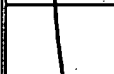
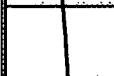

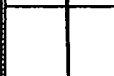



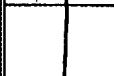
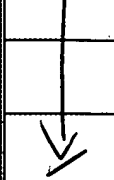
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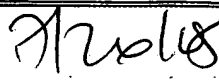
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15	Genbank Accession No. AF498917
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1	*	GenBank Accession No. NM_005228
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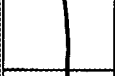
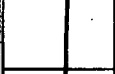

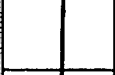





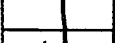
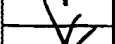

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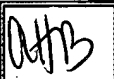

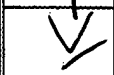


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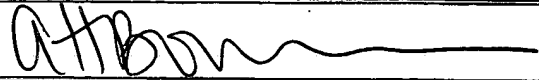
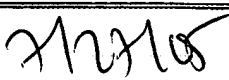
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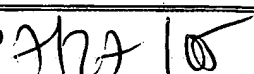
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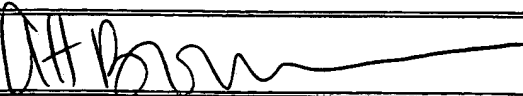
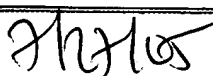
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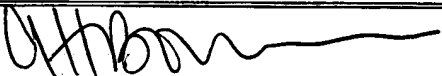
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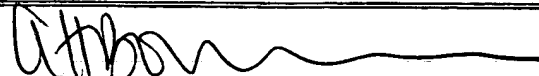
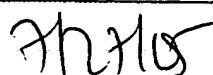
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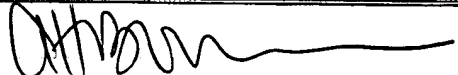
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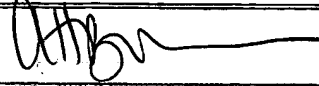

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